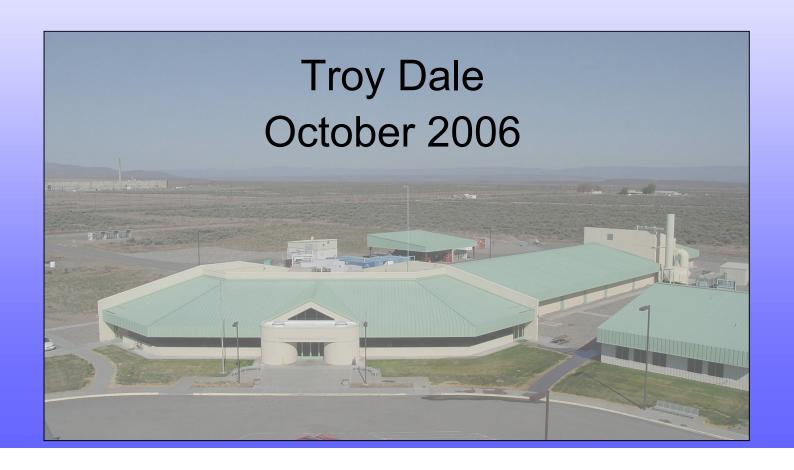
# Analytical Services Laboratory Information Systems



## **Analytical Services LIMS**

- Introduced in 1993
- \$20M Project
- Developed for three Laboratories
  - -222-S
    - Category III nuclear facility
    - 85% from tanks farms
  - Waste Sampling and Characterization Facility (WSCF)
    - Radiological facility (< cat III nuclear facility)</li>
    - Low-level environmental support
  - Plutonium Finishing Plant (PFP) Laboratory
    - Category II nuclear facility
    - Plutonium stabilization and then D & D

#### 10 Years Later

- Unable to install software (Ingres) on new hardware
- Hardware reaching end of usable life
- Analytical Services decides to use same vendor to supply Oracle based upgrade
- New hardware procured for new system
- FY 2003 testing starts on new system

## Testing Results

- Testing showed that the system did not meet the changing requirements for WSCF
- Phased approach
  - Industrial Hygiene
  - Environmental Monitoring
  - Remainder of Projects
- Consensus at time to go to full production
  - Increased time to process data and reports
  - Customer-required schedules required flexibility associated with environmental laboratory systems

## **Decision Time**

- February 2006 WSCF decided to take an alternate approach
- Set the new system aside and reverted back to old system recognizing the risk
  - Operating with 13-year-old hardware
  - Unsure of continued maintenance agreement with IBM
- Follow up with LUG contact from DOE Analytical Manager meeting

## Preparation for Visit

- Team to visit SRS to evaluate LIMS
- Requirements document required to understand what are we looking for
  - Hardware/Operating System
  - Sample handling
  - Data processing
  - Customer and Management Reports

#### Visit to SRS

- Three days of dedicated attention
- Visited Laboratory to view process
- Demonstrations on how system worked
- One-on-one to show details
- Able to speak with vendor

### **Evaluation of SRS**

- Major customizations required for WSCF Laboratory process
- Need to see what else is available
- Visited other Laboratories within state
- Realized the need to reach a larger group of vendors

## Path to Success

- Involved our chemists and chemical technologists who use the system
- Issued RFI in July 2006
- Eleven vendors responded
- WebX conferences and requirements document used to reduce candidates to four
- Draft RFP to procurement
- Hands-on demonstrations with four vendors to help with selection

## **Future**

- Place procurement
- Build the existing infrastructure around the system – new servers if needed, appropriate staffing for day-to-day management, necessary instructions
- Acceptance testing
- Train personnel and phase in systems
- Implementation April 1, 2008

Significant project – uses the lessons learned at other locations and information from DOE LUG.